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Certificate No: TC-1548

Format No: CP/TR/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/04/2018

Lab ID	:	CP-2018-03-28-03
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in 22nd, 23rd and other cross roads at Ravindra Nagara in Ward No.13 in Ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri.Kumar B.J #01, Shree Nilaya, Behind Ranga Mandira, Nagasandra Post, Bangalore-560073
Customer's Reference	:	EE/DD/WO/314/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-2018
Sample ID No	:	2018-03-28-03 /02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	26/03/2018	23/04/2018	149.63 X 150.22 X 150.47	22477	8.147	519.2	23.1	22.8
2	M20 Concrete	M20	26/03/2018	23/04/2018	150.66 X 149.28 X 150.46	22491	8.165	512.8	22.8	
3	M20 Concrete	M20	26/03/2018	23/04/2018	149.38 X 150.23 X 151.22	22441	8.146	504.9	22.5	

Note:
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ಡಾ.ಎಂ. ರಸ್ತೆ, ಬೆಂಗಳೂರು-ಬೆಂಗಳೂರು

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Quality Manager

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-03-28-03** **Date: 23/04/2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in 22nd, 23rd and other cross roads at Ravindra Nagara in Ward No.13 in Ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri.Kumar B.J #01, Shree Nilaya, Behind Ranga Mandira, Nagasandra Post, Bengalore-560073
Customer's Reference	:	EE/DD/WO/314/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-2018
Sample ID No	:	2018-03-28-03 /02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	26/03/2018	23/04/2018	149.63 X 151.22 X 150.03	22627	8.201	522.7	23.1	23.0
2	M20 Concrete	M20	26/03/2018	23/04/2018	150.63 X 150.49 X 150.16	22668	8.168	514.6	22.7	
3	M20 Concrete	M20	26/03/2018	23/04/2018	150.34 X 150.11 X 150.49	22568	8.174	525.8	23.3	

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ಎಸ್.ಎಂ. ರಸ್ತೆ. ರವೀಂದ್ರನಗರ. ಬೆಂಗಳೂರು

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-03-28-03** **Date: 23/04/2018**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in 22nd, 23rd and other cross roads at Ravindra Nagara in Ward No.13 in Ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri.Kumar B.J #01, Shree Nilaya, Behind Ranga Mandira, Nagasandra Post, Bengalore-560073
Customer's Reference	:	EE/DD/WO/314/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-03-2018
Sample ID No	:	2018-03-28-03 /02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	26/03/2018	23/04/2018	151.02 X 150.39 X 150.77	22712	8.201	513.3	22.6	22.7
2	M20 Concrete	M20	26/03/2018	23/04/2018	150.98 X 150.34 X 150.54	22698	8.030	515.3	22.7	
3	M20 Concrete	M20	26/03/2018	23/04/2018	149.63 X 150.57 X 150.08	22530	8.142	513.7	22.8	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಬೆಂಗಳೂರು

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 23-03-18

Lab ID	:	**CP-2018-03-21-03**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in 22nd, 23rd and other cross roads at Ravindra Nagara in Ward No.13 in Ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri.Kumar B.J #01, Shree Nilaya, Behind Ranga Mandira, Nagasandra Post, Bengalore-560073
Customer's Reference	:	EE/DD/WO/314/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-18
Sample ID No	:	2018-03-21-03 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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ಮಿಸ್ಟರ್ ಎಂ. ರಸ್ತೆ, ರಮಲಿಂಗಪುರ, ಬೆಂಗಳೂರು

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-21-03**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. **Date: 18-04-18**
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in 22nd, 23rd and other cross roads at Ravindra Nagara in Ward No.13 in Ward No.13 in Shettyhalli Sub Division.
Agency	:	Sri.Kumar B.J #01, Shree Nilaya, Behind Ranga Mandira, Nagasandra Post, Bengalore-560073
Customer's Reference	:	EE/DD/WO/314/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-18
Sample ID No	:	2018-03-21-03 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	21-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-21-03** **Date: 24-03-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain in 22nd, 23rd and other cross roads at Ravindra Nagara in Ward No.13 in Ward No.13 in Shettyhalli Sub
Agency	:	Sri.Kumar B.J #01, Shree Nilaya, Behind Ranga Mandira, Nagasandra Post, Bengalore-560073
Customer's Reference	:	EE/DD/WO/314/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-03-18
Sample ID No	:	2018-03-21-03 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	301	301	2.0	98.0	90-100
3	20 mm	7285	7586	50.6	49.4	30-70
4	10 mm	5248	12834	85.6	14.4	10-35
5	4.75 mm	1991	14825	98.8	1.2	0-5
6	Pan	175	15000	100.0	0	---

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